SONY

3-755-441-21(1)

TV/WEATHER/FM/AM 4 Band PLL
Synthesized Receiver

ICF-M350V

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

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PERSONAL/PORTABLE AUDIO PRODUCTS

SONY

LIMITED WARRANTY

SONY CORPORATION OF AMERICA ("SONY") warrants this product against defects in material or workmanship, as follows:

For a period of 1 year from the date of retail purchase, SONY shall at its sole and absolute option either repair the defective product at no charge or replace the defective product with the same model or its equivalent model at no charge through a SONY SERVICE CENTER.

To obtain warranty service, you must take the product, or deliver the product prepaid, to one of the SONY SERVICE CENTERS located in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice, which indicates that the product is within the warranty period, must be presented to obtain warranty service. SONY suggests that the purchaser retain the dealer's dated bill of sale as evidence of the date of retail purchase.

This warranty does not cover cosmetic damage, and damage to any part of the product, including the antenna, which results from acts of God, accident, misuse, abuse, improper maintenance, or connection to an improper voltage supply.

This warranty is valid only if the serial number appears on the product. This warranty is valid only in the United States of America.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership SM within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Please refer to the list of SONY SERVICE CENTERS on the reverse side for the SONY SERVICE CENTER nearest you.

For your convenience, Sony Corporation of America has established the Customer Information Center to supply you with product or service information.

SONY CUSTOMER INFORMATION CENTER
201-930-SONY (7669)
714-821-SONY (7669)
708-250-SONY (7669)

or write to:

SONY CUSTOMER INFORMATION CENTER
Sony Drive, Mail Drop #T1-11
Park Ridge, New Jersey 07656

SONY CORPORATION OF AMERICA
Sony Drive, Park Ridge, New Jersey 07656

To obtain warranty service, please take the product, or deliver the product prepaid, to one of the following Sony Service Centers located around the United States.

All of the following items must be included when the product is shipped prepaid to the SONY SERVICE CENTER.

- Name, address and a phone number where you may be reached during the day.
- A copy of proof of purchase, as evidence that the product is within the warranty period.
- Brief description of the product defect.
- All supplied accessories with the product.

Sony Service Centers

Arizona

Phoenix
2240 North Scottsdale Road
Tempe, AZ 85281
(602) 949-7669

California

Burbank (Los Angeles area)
4100 Riverside Drive, Suite A
Burbank, CA 91505
(818) 842-7669

Costa Mesa (Orange County area)
2729 Bristol Street South
Costa Mesa, CA 92626
(714) 549-4833

San Bruno (San Francisco area)
751 Camino Plaza
San Bruno, CA 94066
(415) 871-2810

San Diego
6975 Complex Drive
San Diego, CA 92123
(619) 279-2724

San Jose
1359 Old Oakland Road
San Jose, CA 95112
(408) 280 7669

Colorado

Denver
Havana Place Center
10740 East Iliff Avenue
Aurora, CO 80014
(303) 755-7669

Florida

Fort Lauderdale
2850 North 28th Terrace
Hollywood, FL 33020
(305) 920-5600

Georgia

Atlanta
120 Interstate North Parkway East
Suite 410
Atlanta, GA 30339
(404) 953 5871

Hawaii

Honolulu
950 Mapunapuna Street
Honolulu, HI 96819
(808) 834-6622

Illinois

Chicago
1730 West Fullerton, Suite 4
Riverpoint Shopping Center
Chicago, IL 60614
(312) 929-8585

Niles (Chicago N.W.)
7540 North Caldwell Avenue
Niles, IL 60648
(708) 647-2400

Westmont (Chicago S.W.)
6036-38 South Cass Avenue
Westmont, IL 60559
(708) 969-0049

Kansas

Kansas City
11712 West 95th Street
Overland Park
KS 66214
(913) 888-2622

Maryland (Washington D.C.)

Washington D.C.
5300 Sunnyside Avenue
Beltsville, MD 20705
(301) 595-1818

Massachusetts

Boston
390 University Avenue
128 Westwood Industrial Center
Westwood, MA 02090
(617) 329-8130

Michigan

Detroit
43304 Eleven Mile Road
Novi, MI 48050
(313) 344-4044

Minnesota

Minneapolis
4300 W 36 1/2 Street
St Louis Park, MN 55416
(612) 920-8000

Missouri

St. Louis
12462-D Natural Bridge Road
Bridgeton, MO 63044
(314) 291-2201

New Jersey

Mahwah (N.Y. Metropolitan Area)
388 Route 17 South
Mahwah, NJ 07430
(201) 529-1656

Union
Bradlees Shopping Center
US Highway 22 At Morris Avenue
Union, NJ 07083
(201) 687-5555

Ohio

Cleveland
6370 York Road
Parma Heights, OH 44130
(216) 845-7669

Pennsylvania

Philadelphia
651 Park Avenue
King of Prussia, PA 19406
(215) 768-8850

Pittsburgh
Wexford Plaza
10610 Perry Highway (Rt 19N)
Wexford, PA 15090
(412) 935-8466

Texas

Dallas
401 Preston Valley Shopping Center
Dallas, TX 75230
(214) 661-3637

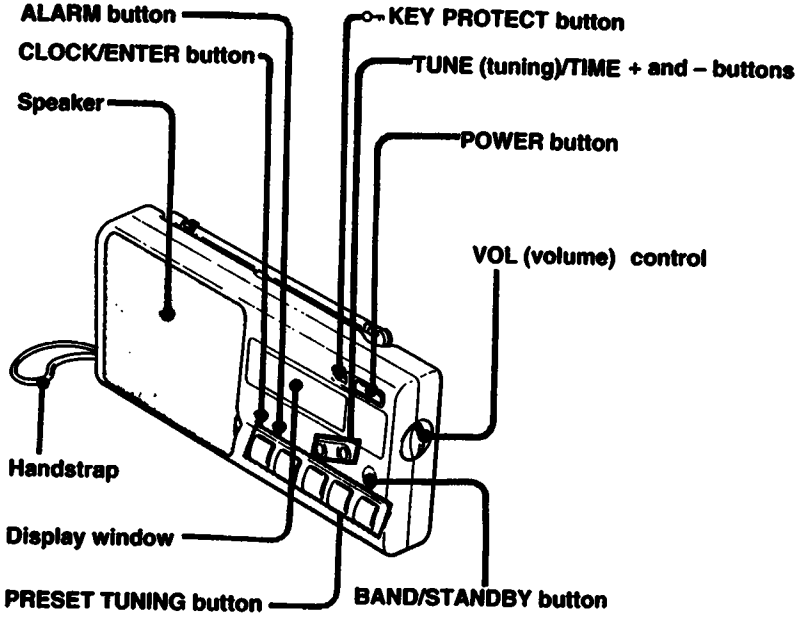
Houston
7839 Westheimer
Houston, TX 77063
(713) 783-8761

Washington

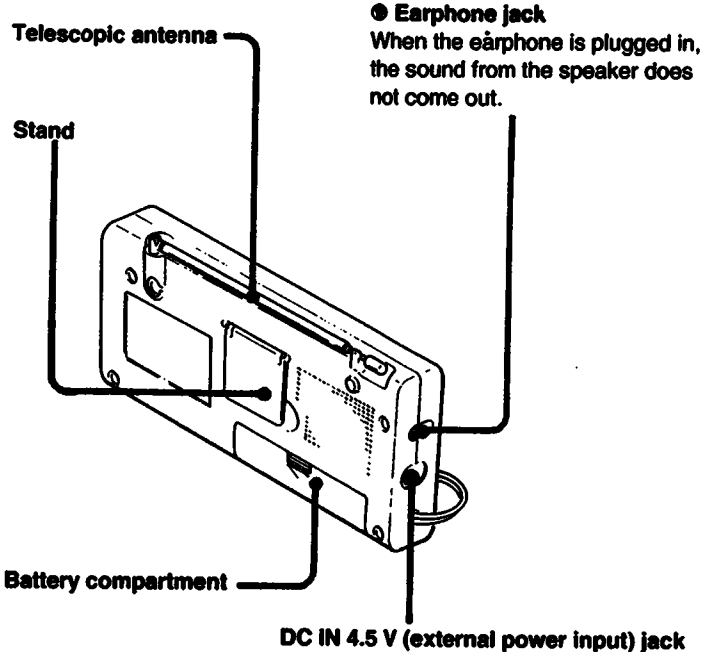
Seattle
835 Fidalgo
Seattle, WA 98108
(206) 762-6900

Location and Function of Controls

Front panel



Rear panel


Telescopic antenna
Stand
⑨ Earphone jack
When the earphone is plugged in, the sound from the speaker does not come out.
Battery compartment
DC IN 4.5 V (external power input) jack

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

INFORMATION
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Features

- A quartz-controlled PLL(Phase Locked Loop) synthesizer system using a microcomputer for easy pinpoint tuning.
- Up to 5 stations in each band can be preset.
- The tuned frequency is digitally displayed to make searching of the desired station easier.
- The radio can be turned on at the preset time.
- Weather band provides continuous broadcast of the latest weather information (directly from National Weather Service offices).

Note on AM channel step

The AM channel step differs depending on areas. The AM channel step of this unit is factory-set to 10 kHz to match the frequency allocation system of the country as listed. You can change the channel step. (See "Changing AM Channel Step".)

Area	AM channel step
North American countries	10 kHz
Other countries	9 kHz

Precautions

- Operate the unit only on 4.5 V DC.
  For battery operation, use three size AA (R6) batteries.
  For AC operation and car battery operation, use accessories recommended for the unit. Do not use any other type.
- The nameplate indicating operating voltage, etc. is located on the rear.
- Do not leave the unit in a location near a heat source such as a radiator or airduct, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Use the unit within a temperature range of 0° C to 40° C (32°F to 104°F). If it is used in temperatures higher than this range, numbers may appear on the frequency which have nothing to do with the frequency being received. If it is used in temperatures lower than this range, the numbers displayed may change very slowly. (These irregularities will disappear and there will be no damage to the unit when the unit is used in its recommended temperature range.)
- Should any solid object or liquid fall in to the unit, remove the batteries, and have the unit checked by qualified personnel before operating it any further.
- Since a strong magnet is used for the speaker, keep personal credit cards using magnetic coding or spring-wound watches away from the unit to prevent possible damage from the magnet.
- When the casing becomes soiled, clean it with a soft cloth dampened with mild detergent solution. Never use abrasive cleansers or chemical solvents, as they may mar the casing.

If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

Troubleshooting Guide

Should any problem persist after you have made following checks, consult your nearest Sony dealer.

The unit is not turned on.
- Weak or incorrect polarity of batteries
- The ⊶ mark is displayed. Press the KEY PROTECT button so that the ⊶ mark will disappear.
- The AC power adaptor or the car battery cord is disconnected.
- Battery operation is attempted while the AC power adaptor or the car battery cord is connected to the unit, but not to a wall outlet or cigarette lighter socket.

The front panel buttons do not operate at all.
- The ⊶ mark is displayed. Press the KEY PROTECT button so that the ⊶ mark will disappear.

Display is dim, or no indication is displayed.
- Weak batteries.
- The unit is being used in extremely high or low temperatures or in place with excessive moisture.

Sound is not heard at all.
- The VOL control is turned down completely.
- The earphone is plugged in.
- Incorrect polarity of batteries

Very weak or interrupted sound, or unsatisfactory reception
- Weak batteries
- In a vehicle or in a building, listen near a window.

The station cannot be received in the preset tuning.
- The station has not been preset.
- The memory of the station has been erased. Preset the station again.

The radio is not turned on at the preset time.
- The current time is not set correctly.
- The alarm time is not set correctly.
- The VOL control is turned down completely.

Sound is not heard and "ooo" flashes in the display window.
- Weak batteries.

Specifications

Frequency range	TV	2–13ch
	WEATHER	1–7ch
	FM	87.5–108 MHz (0.1 MHz step)
	AM	530–1,710 kHz (10 kHz step) 531–1,710 kHz (9 kHz step)

Speaker: Approx. 7.7 cm (3 1/8 inches) dia.
Power output: 280 mW (at 10% harmonic distortion)
Output: Earphone jack (minijack)
Power requirements: 4.5 V DC
Three size AA (R6) batteries
DC IN 4.5 V jack accepts:
Sony AC-E45M AC power adaptor (not supplied)
Sony DCC-E145L car battery cord (not supplied) for use with 12 V car battery
Battery life: TV/WEATHER: 12 hours
FM: 15 hours
AM: 21 hours
using Sony batteries SUM-3 (NS)
Dimensions: Approx. 195 × 95 × 32.5 mm (w/h/d) (7 3/4 × 3 3/4 × 1 5/16 inches)
not incl. projecting parts and controls

Mass: Approx. 440 g (15.5 oz) incl. batteries

Design and specifications subject to change without notice.

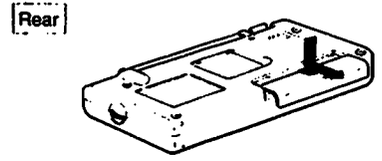
Optional Accessories: AC power adaptor AC-E45M
Car battery cord DCC-E145L

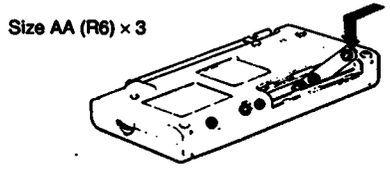
Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information about the optional accessories available in your country.

Installing Batteries

When to replace the batteries

When the batteries become weak, sound becomes weak or distorted. When the batteries are run down completely, the power is turned off and "ooo" in the display window flashes. When the power turned on with the indication flashing, the power will be turned off right away. When "ooo" starts flashing, replace all the batteries with new ones. After the batteries are replaced, turn the power on again to stop the flashing of the indication.





When replacing the batteries

Replace the batteries within about one minute after turning off the radio. If you do not replace them within one minute, the preset stations may be erased, the clock setting may be cleared and "AM 12:00" flashes in the display window.
For battery life, see "Specifications".

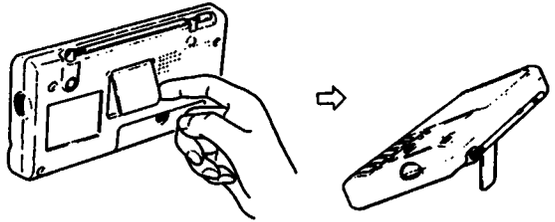
To avoid damage from battery leakage and corrosion

Remove the batteries when you do not use the unit for a long time.

When the batteries are removed for a long time

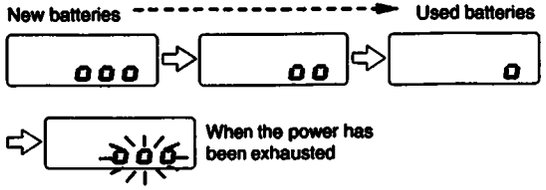
Preset stations will be erased and the clock setting will be cleared. It this case, store stations and reset the clock.

How to Use the Stand



The indication of the power remaining in the battery

When you turn the unit on, the power remaining in the battery is displayed for about one second and a half. The unit displays one of the four indications depending on the power remaining in the battery.



Other Power Sources

The internal batteries are automatically disconnected when the AC power adaptor or the car battery cord is connected to the DC IN 4.5 V jack.

House current

Connect the Sony AC-E45M AC power adaptor (not supplied) to the DC IN 4.5 V jack, and plug it into a wall outlet.

Car battery

For use on 12 V car battery, connect the Sony DCC-E145L car battery cord (not supplied) to the DC IN 4.5 V jack.

Notes

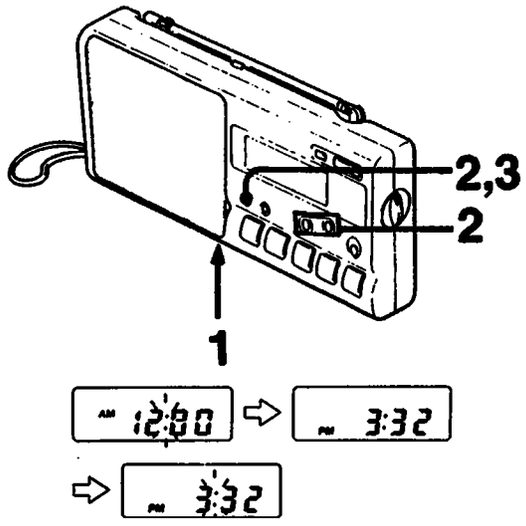
- When operating the unit on the batteries, remove the AC power adaptor or car battery cord.
- The unit cannot be operated on the internal batteries when the DC power adaptor or car battery cord is connected to the DC IN 4.5 V jack.
- The batteries should be inserted for back-up even when the unit is operated on AC power adaptor or car battery cord.
- When the AC power adaptor is not used, be sure to unplug it both from the DC IN 4.5 V jack and from a wall outlet. If the AC power adaptor is connected to the DC IN 4.5 V jack without connecting to a wall outlet, the clock will be reset and the preset stations will be erased.

Note on the AC power adaptor

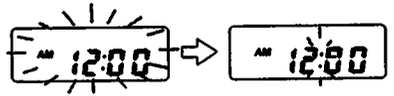
Use only the recommended car battery cord or AC power adaptor (not supplied).
Do not use any other car battery cord or AC power adaptor.

Setting the Clock

Set the clock or display time when the radio is turned off.



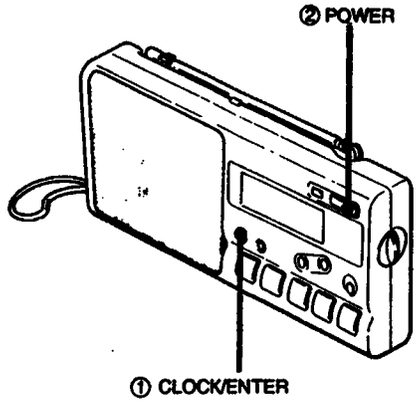
1 When you insert the batteries for the first time, digits flash in the display window. To stop flashing, press the CLOCK/ENTER button.



2 While pressing the CLOCK/ENTER button, press the TUNE/TIME + or – button to set the clock to the current time. Each time the button pressed, the digits move forward or back by one. When you keep the button pressed, the digits change rapidly.

3 When you release the CLOCK/ENTER button, the clock starts operating, and ":" starts flashing. If you release the CLOCK/ENTER button simultaneously with the time signal as it sounds, the clock starts from zero second.

Changing the AM Channel Step



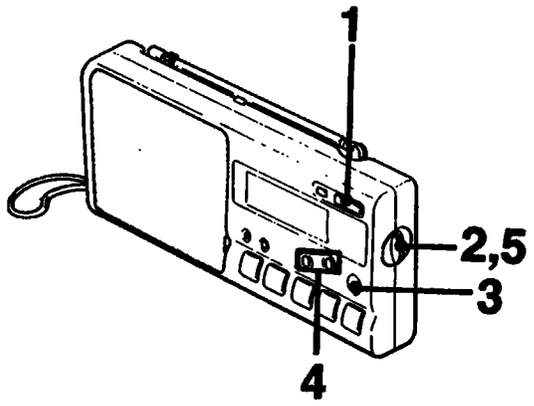
1 Make sure that the radio is turned off.

2 While pressing the CLOCK/ENTER button ①, keep pressing the POWER button ② for more than 5 seconds. The AM channel step has been changed. If you proceed step 2 again, the channel step changes again.

Note

If you proceed with the step above, the clock and the preset memory are erased, and "AM 12:00" flashes.

Listening to the Radio (Manual Tuning)



1 **Press the POWER button to turn the radio on.**
The band, frequency and the preset number of the station before the radio was turned off appear in the display window.

2 **Turn the VOL control a little to get sound.**

3 **Press the BAND/STANDBY button to select the band.**
Each press of the button changes the band in the following order.

→ AM → FM → TV → WEATHER →

(The display window shows the last frequency chosen in each band.)

4 **Tune in a desired station by pressing the TUNE/TIME + or – buttons.**

5 **Adjust volume.**

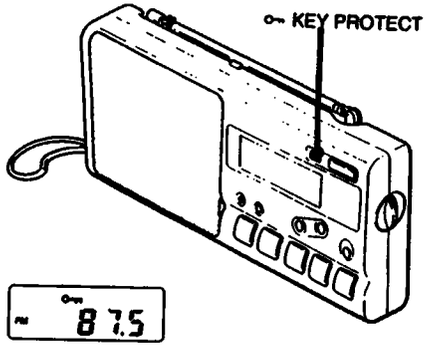
To turn the radio off
Press the POWER button.

To Improve Reception

FM/TV/WEATHER: Extend the telescopic antenna and adjust the length, direction and angle for the best reception.

AM: Since the ferrite bar antenna is built in, the reception is affected by the position of the radio. Rotate the unit horizontally for optimum reception.

To Prevent Accidental Change of the Receiving Station



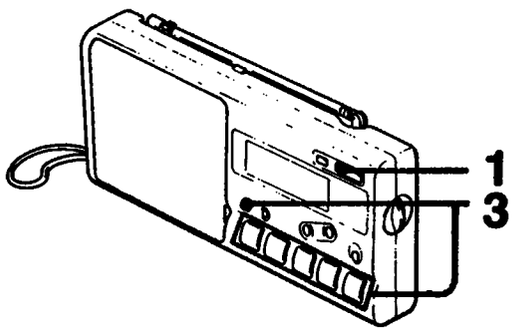
Press the KEY PROTECT button. The mark will be displayed, indicating that the front panel buttons cannot be activated. This prevents accidental operation when the unit is being carried. You can adjust volume even if the mark is displayed. To release this function, press the KEY PROTECT button again.
When you press the KEY PROTECT button in the standby mode, the standby mode will be cancelled temporarily until the KEY PROTECT function is released.

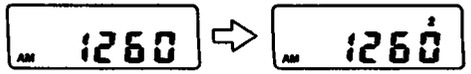
Preset Tuning

You can preset up to five stations in each band (a total of 20 stations).

[illegible]

Example: To set AM 1260 kHz in preset button 2.





1 Press the POWER button to turn the radio on.

2 Tune in the AM 1260 kHz (see "Listening to the Radio (Manual Tuning)").

3 While keeping the CLOCK/ENTER button pressed, press the desired PRESET TUNING button.
The preset number appears in the display window.

Repeat these steps for each station to be preset.

To change the preset station

Preset a new station in the number of which you want to change the station. The previous station is canceled.

[illegible]

1 Press the POWER button to turn the radio on.

2 Select the band with the BAND/STANDBY button.

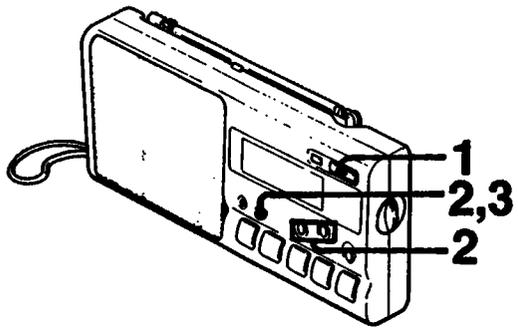
3 Press the desired PRESET TUNING button.

4 Adjust the volume.

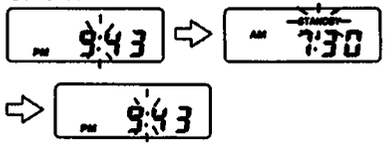
Using the Alarm Function

You can turn the radio on at the preset time. It will be tuned in the station before the radio was turned off. The radio will automatically turn off after about 60 minutes, unless you turn it off.

Setting the Alarm Time



Current time



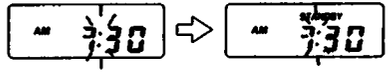
1 Make sure the radio is turned off.

2 While keeping the ALARM button pressed, set the time by pressing the TUNE/TIME + or – button.
While the ALARM button is pressed, the "STANDBY" indication is flashing in the display window.

3 Release the ALARM button.
The alarm time is set. The indication becomes the current time.

Setting the Alarm

1 Make sure the radio is turned off.
2 Press the BAND/STANDBY button.
The "STANDBY" indication appears in the display window.



To cancel the alarm function

Press the BAND/STANDBY button. The "STANDBY" indication disappears.

Note

When "AM 12:00" is flashing, you cannot set the alarm time nor set the alarm.